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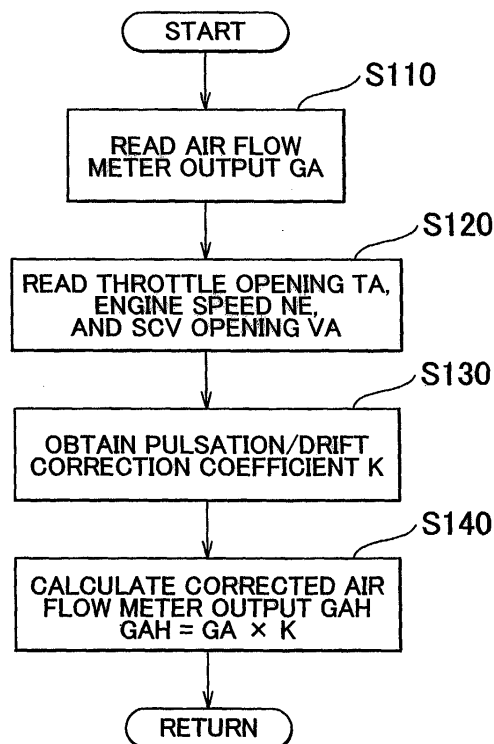
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(54) **Intake flow rate detecting apparatus of internal combustion engine and method of same**

(57) In order to provide an intake flow rate detecting apparatus of an internal combustion engine (1) which accurately compensates for an air flow meter (45) detection error due to intake pulsation so as to make it possible to detect an intake flow rate more accurately, regardless of the type of flow rate control mechanism, an intake flow rate detecting apparatus according to one embodiment of the invention includes a throttle valve (23) which is provided in an intake passage (20) and which adjusts a rate of the air that is taken into a combustion chamber (8) of an internal combustion engine (1), at least one flow rate control mechanisms which are provided between the throttle valve (23) and the combustion chamber (8) and which control an air flow rate between the throttle valve (23) and the combustion chamber (8), and a flow rate sensor (45) which is provided upstream of the throttle valve (23) in the intake passage (20) and which detects a flow rate of air flowing through the intake passage (20). The intake flow rate detecting apparatus corrects a detection value of the flow rate sensor (45) based on an opening of the throttle valve (23), an operation amount of the flow rate control mechanism and a speed of the internal combustion engine (1) so as to detect a rate of air which is actually taken into the combustion chamber (8).

FIG. 3





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EUROPEAN SEARCH REPORT

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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 23 February 2007	Examiner De Vita, Diego
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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